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**To:** [Kristine Koch/R10/USEPA/US@EPA](#)  
**Cc:** [Tom.McCue@siltronic.com](#); [Gladstone, Alan](#); [James Peale](#); [Eric Blischke/R10/USEPA/US@EPA](#); [Rene Fuentes/R10/USEPA/US@EPA](#); [Chip Humphrey/R10/USEPA/US@EPA](#); [Sean Sheldrake/R10/USEPA/US@EPA](#); [Deb Yamamoto/R10/USEPA/US@EPA](#); [ANDERSON Jim M](#); [GAINER Tom](#); [LARSEN Henning](#); [MCCLINCY Matt](#)  
**Subject:** FW: Nov. 18 Meeting Notes - NWN, DEQ, EPA Gasco Meeting  
**Date:** 12/31/2008 12:39 PM  
**Attachments:** [Gasco Nov 18 2008 Meeting Notes .pdf](#)

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Hello Kristine.

I mistakenly thought the final version of the November 18th meeting notes had been previously routed. It was recently pointed out to me this was not the case. As such, this e-mail provides the final notes to all meeting participants and others interested in the progress being made on the project.

NW Natural has incorporated EPA and DEQ comments, transmitted via e-mails sent December 2nd and December 8th, respectively (see below); without comment or revision.

As indicated in my December 8th e-mail, DEQ understands the topics presented by the EPA team for discussion during the November 18th meeting have been resolved for purposes of moving forward with the vibration study and interim design phase of groundwater and DNAPL source control measures (SCMs) planning.

The vibration study represents the last SCMs design support study needed before the interim design report can be prepared. The study will provide information essential for planning, designing, and constructing the vertical barrier.

DEQ appreciates the efforts made by the EPA and NW Natural teams to work though and resolve EPA's questions regarding NW Natural's SCMs approach.

Please feel free to contact me with questions regarding this e-mail.

Mr. Dana Bayuk, Project Manager  
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-----Original Message-----

From: John Edwards [mailto:[jedwards@anchorenv.com](mailto:jedwards@anchorenv.com)]  
Sent: Thursday, December 11, 2008 11:03 AM  
To: BAYUK Dana  
Cc: Michael Riley; Bob Wyatt; Rob Ede; Patty Dost (Schwabe); Carl Stivers; J. [REDACTED] Keith; Chris Torell; Ben Hung; John Laplante; (b) (6) John Verduin  
Subject: RE: Nov. 18 Meeting Notes - NWN, DEQ, EPA Gasco Meeting

Dana. We have reviewed the DEQ comments added to the Nov 18 meeting notes and we have no suggested changes. The attached revised notes include DEQ's comments. We also added EPA's comment on the vertical barrier as sent via e-mail on December 2.

So, with the approvals in these notes NWN is moving forward to finalize the vibration study access agreement and schedule vibration study contractors.

We assume that you will want to distribute these final notes to appropriate parties.

Thanks

John E. Edwards, RG, CEG  
Anchor Environmental, L.L.C.  
6650 SW Redwood Lane, Suite 333 New Suite Number!

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-----Original Message-----

From: BAYUK Dana [mailto:[BAYUK.Dana@deq.state.or.us](mailto:BAYUK.Dana@deq.state.or.us)]

Sent: Monday, December 08, 2008 4:44 PM  
To: Koch.Kristine@epamail.epa.gov; Carl Stivers  
Cc: Humphrey.Chip@epamail.epa.gov; blischke.eric@epa.gov; GAINER Tom;  
John Edwards; James Peale; LARSEN Henning; Michael Riley;  
Fuentes.Rene@epamail.epa.gov; Bob Wyatt; Rob Ede; T McCue  
Subject: RE: Nov. 18 Meeting Notes - NWN, DEQ, EPA Gasco Meeting

Good afternoon.

DEQ has gone through the November 18th meeting notes and inserted clarifying comments in blue.

With this e-mail and EPA's December 2nd e-mail, DEQ understands the topics presented by the EPA team for discussion during the November 18th meeting have been resolved for purposes of moving forward with the vibration study and interim design phase of groundwater and DNAPL source control measures. The vibration study is the last source control measures design support study needed before the interim design report is prepared and submitted for EPA and DEQ review.

DEQ appreciates the time and effort provided by the EPA and NW Natural teams to work through source control planning and design topics needing further discussion and clarification.

Please feel free to contact me with questions regarding this e-mail and/or attachment.

Mr. Dana Bayuk, Project Manager  
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-----Original Message-----

From: Koch.Kristine@epamail.epa.gov  
[mailto:Koch.Kristine@epamail.epa.gov]  
Sent: Tuesday, December 02, 2008 10:31 AM  
To: Carl Stivers  
Cc: BAYUK Dana; Humphrey.Chip@epamail.epa.gov; blischke.eric@epa.gov;  
GAINER Tom; John Edwards; James Peale; LARSEN Henning; Michael Riley;  
Fuentes.Rene@epamail.epa.gov; Bob Wyatt; Rob Ede; T McCue  
Subject: Re: Nov. 18 Meeting Notes - NWN, DEQ, EPA Gasco Meeting

Carl, EPA has looked over the comments and believe that you accurately depicted the meeting. We do, however, have one clarifying comment...

o If the pump and treat system is an effective barrier, then EPA wondered why a short, partial and shallow wall, unkeyed to any aquitard wall is part of the design.

Regards,

Kristine Koch  
Remedial Project Manager  
USEPA, Office of Environmental Cleanup

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"Carl Stivers"  
<cstivers@anchor  
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11/25/2008 04:13  
PM

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Subject  
Nov. 18 Meeting Notes - NWN, DEQ,  
EPA Gasco Meeting

Dana - Here are the meeting notes that we discussed at this meeting. I have copied everyone who was present at the meeting.

Thanks.

Carl

Carl Stivers  
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(See attached file: Gasco Meeting Notes Nov 18 2008 draft.doc)